

IST 659 Lab 4 SQL I

Instructions

Business Case

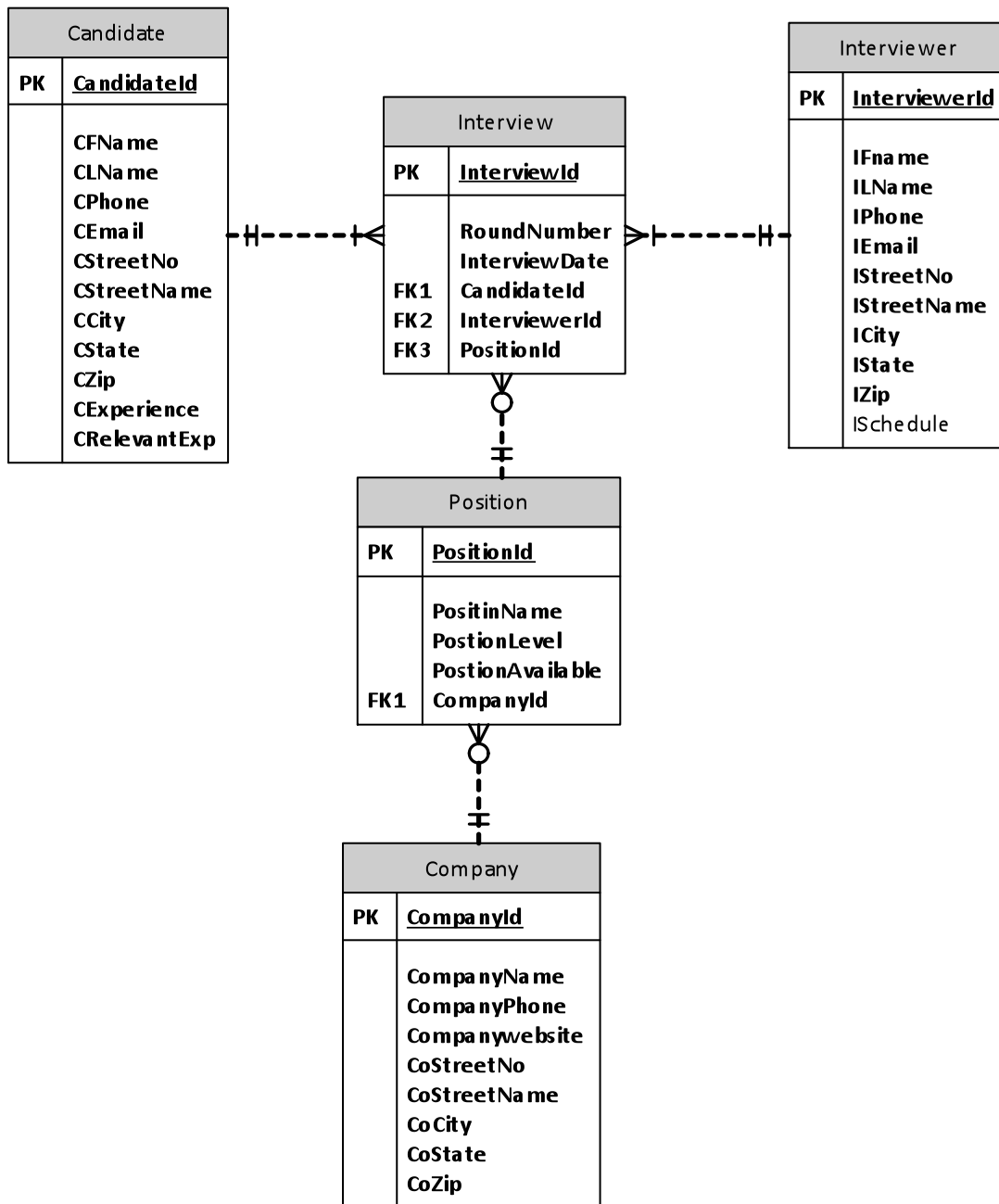
Career Services of our school wants to keep a track of all interviews (positions, candidates, company, and interviewer) that take place. They want to keep track of all the companies, the potential candidates, interviewer, positions available at companies etc. Sometimes the career services needs to contact the companies for verification or other inquiries. We need to build a database that would assist the career services in recording this information.

In this database system, each company and candidate will have their own profiles which include their names and contact information such as phone numbers, postal addresses. Candidates would need to provide information about their primary Experience domain, and relevant experience. Interviewers may or may not provide their office hour information. The schedule or office hour information should be a text describing when the interviewer's office is open, e.g. 9am-5pm Monday – Thursday.

An interviewer can conduct one or multiple interviews of candidates. A candidate can have one or more interviews. Each interview must have an interview date and round number along with information about the Candidate (CandidateId) and Interviewer (InterviewerId).

The database should also maintain information about the positions a company is looking to hire for. Details about position level, and position name should also be given. Information about whether the position is still available or not should also be stored in the database (this field will be either “yes” or “no”).

In this lab we have already created the ERD model for the career services database (see below).



Lab 4 instruction

Imagine you are hired by career services to design a new database to support this business. Now it's time to move to the next step, database physical design and implementation. As the first step please use SQL DDL and DML to provide the following deliverables that satisfy the requirements.

1. Create tables:

Create the five tables following the ERD above. Copy and paste the complete create statements to your lab report.

Make sure you set up correct constraints for the primary keys and foreign keys. Also the following domain constraints are required in the creating:

- 1) Set the default date as today for the value of InterviewDate.
- 2) PositionLevel Type attribute in the Position table should only accept one of these five values - "Internship", "Entry", "Executive", "Managerial", "Staff"

2. Insert data:

Insert the following data (shown in the screenshots) to the tables. Copy and paste all insert statements to the lab report.

3. Select data:

Select all content of each table to prove the success of creating tables and inserting data. Include the screenshots of the select results in the lab report. The select results should look like follows:

Candidate Table:

	CandidateId	CFName	CLName	CPhone	CStreetNo	CStreetName	CCity	CState	CZip	CExperience	CRelExperience
1	1	Nathan	Kerr	315-555-5555	112	Lafayette Rd	Syracuse	New York	13205	Database, Business Analysis	Database
2	2	Sebastian	Chapman	315-555-6666	17	James St	Syracuse	New York	13210	Consultant, Business Analysis	Consultant
3	3	Heather	Cameron	315-555-7777	410	Comstock Ave	Syracuse	New York	13210	Developer, Business Analysis	Developer
4	4	Olivia	Wallace	315-555-8888	4248	Nottingham Rd	Syracuse	New York	13244	Database, Business Analysis	Database
5	5	Lily	Turner	315-556-9999	3	Ostrom Ave	Syracuse	New York	13225	Database, Business Analysis, Developer, Analyst	Database

Interviewer Table:

	InterviewerId	IFName	ILName	IPhone	IEmail	IStreetNo	IStreetName	ICity	IState	IZip	ISchedule
1	1	Dorothy	Paige	315-555-0126	dorothy.paige@syr.edu	137	Sumner Ave	Syracuse	New York	13210	9am-5pm Monday - Friday
2	2	Amy	May	315-5555	amy.may@syr.edu	777	Ackerman Ave	Syracuse	New York	13210	NULL
3	3	Charles	Duncan	315-444-5555	charles.duncan@syr.edu	345	Lancaster Ave	Syracuse	New York	13210	8am-6pm Monday - Saturday
4	4	Victor	Miller	315-333-5565	victor.miller@syr.edu	7116	Lafayette Rd	Syracuse	New York	13205	NULL
5	5	Ray	Mysterio	315-129-5677	raymesterio@syr.edu	234	Lafayette Rd	Syracuse	New York	13205	9:30am-5:30pm Monday - Friday

Company Table:

	CompanyId	CompanyName	CompanyPhone	CompanyWebsite	CoStreetNo	CoStreetName	CoCity	CoState	CoZip
1	1	Ernst & Young	315-129-5677	www.ey.com	234	Lafayette Rd	New York	New York	13205
2	2	Deloitte	315-356-5887	www.deloitte.com	456	Summer Ave	New York	New York	13100
3	3	PWC	315-894-4787	www.pwc.com	791	Maryland Ave	New York	New York	13801
4	4	KPMG	315-129-5677	www.kpmg.com	437	Lanchaster Ave	New York	New York	12147
5	5	Cognizant	315-479-5182	www.cognizant.com	825	Ackerman Street	New York	New York	10071

Position Table:

	PositionId	PositionName	PositionLevel	PositionAvailable	CompanyId
1	1	Techology Analyst	Internship	yes	1
2	2	Business Analyst	Entry	yes	1
3	3	Database Analyst	Executive	yes	2
4	4	Risk Manager	Executive	no	3
5	5	Advisory Consultant	Staff	yes	4
6	6	Project Manager	Managerial	no	5

Interview Table:

	InterviewId	RoundNumber	InterviewDate	CandidateId	InterviewerId	PositionId
1	1	2	2013-09-27 00:00:00.000	1	1	1
2	2	1	2013-09-28 00:00:00.000	2	2	2
3	3	3	2013-09-17 00:00:00.000	3	3	1
4	4	2	2015-02-11 21:27:13.530	1	2	1
5	5	5	2013-09-17 00:00:00.000	5	5	5

Submission

Please submit your lab report in one Word file to BB. You can use MS OneNote to capture and edit screenshots of the SQL statements and their results. Make sure your screenshots have good resolution. Remember to add comments to your SQL statements to explain the purpose of the code blocks. This lab report is due by **Tuesday, 03/01 02:00pm**. Starting from this lab you DO NOT need to submit paper copies of your lab reports.